

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

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JOHN AUERBACH
COMMISSIONER

Spencer Lord, ADA

Suffolk County District Attorney's Office
By e-mail

July 20, 2011

Re: Comm. v. [REDACTED]

ADA Lord,

Please find below the material requested regarding the case noted above:

- 1) the chemists' c.v.'s
- 2) the Evidence Office receipt to the Boston Police
- 3) the inventory control card
- 4) the Drug Powder Analysis Form
- 5) the gas chromatography/mass spectrometry (gc/ms) data

I was the custodial chemist responsible for the chain of custody, the weights and the preliminary analysis of the submission. Annie Khan performed the confirmatory test on the gc/ms.

If you need further clarification of this material, call me directly at (617) 983-6627.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Lawler".
Michael Lawler
Senior Chemist

Cc: Annie Khan

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits. Lab Safety Officer.

2005-2008 lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court Current Drug Trends – Multijurisdictional Drug Task Force Academy

CDC course in antibiotic resistance CDC course in cell culture

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)



DRUG RECEIPT

CC # _____
BOOK # 66
PAGE # 63
DESTRUCTION # _____

District/Unit DCU D4 Name & Rank of Arresting Officer S.O. PAUL T. QUINN ID# 11449

To be completed by ECU personnel only

Name and Rank of Submitting Officer _____ ID# _____

Received by *[Signature]* Date *10/27/18*

ECU Control

No. [REDACTED] Date Analyzed: 01-21-11

City: Boston D.C.U. Police Dept.

Officer: P.O. KEITH BUTLER

Def: [REDACTED]

Amount: Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 10/27/2010

No. Analyzed:

Gross Wt.: 4.29 ✓

Net Weight: 0.40 g

Tests: 5/466

• 2ASSO

Prelim: Heroin

Findings: Heroin

GO12011S
GCMNS

1-21-11

DRUG POWDER ANALYSIS FORM

SAMPLE #

AGENCY

Boston DMR

ANALYST

MJR

No. of samples tested:

Evidence Wt.

4.29

PHYSICAL DESCRIPTION:

double layered substance

Gross Wt (): 0.5517

Gross Wt (): _____

Pkg. Wt: _____

Net Wt: 0.4073

CHAW 2334 1-18-11

20g = 19.4998g

10g = 9.9998g

5g = 4.9998g

1g = 0.9998g

PRELIMINARY TESTS

Spot Tests

Cobalt Thiocyanate ()

Marquis ()

Froehde's ()

Mecke's ()

Microcrystalline Tests

Gold Chloride _____

TLTA () _____

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS _____

DATE _____

GC/MS CONFIRMATORY TEST

RESULTS heroin

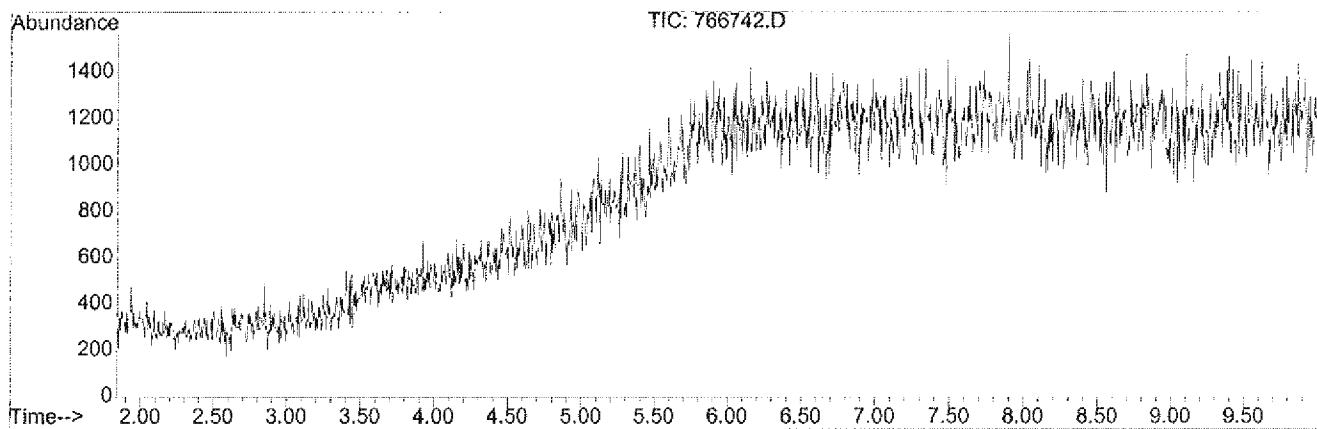
MS OPERATOR ASD

DATE 1-21-11

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766742.D
Operator : ASD
Date Acquired : 20 Jan 2011 16:03 *✓ASD
01.20.11*
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



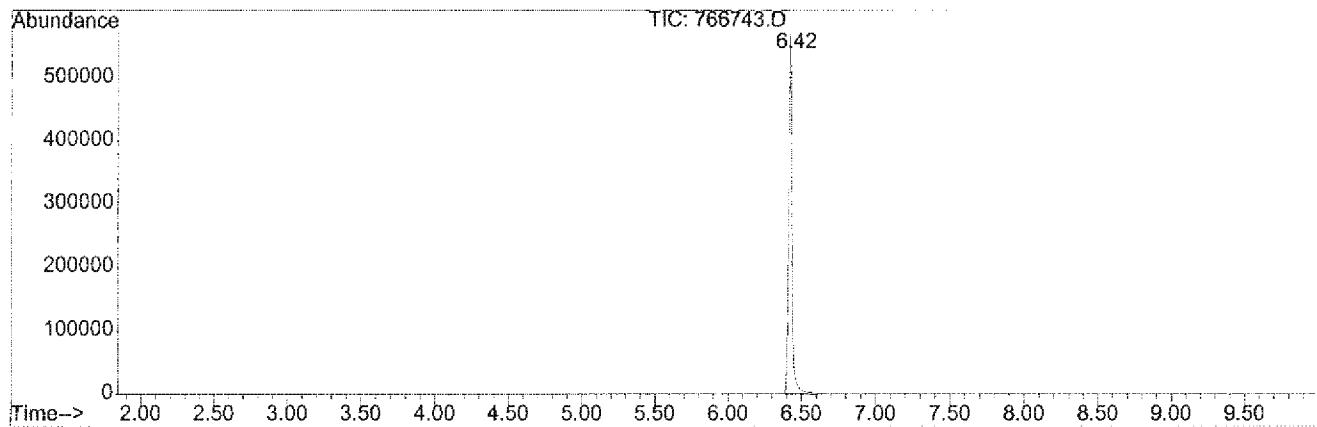
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766743.D
Operator : ASD
Date Acquired : 20 Jan 2011 16:16
Sample Name : HEROIN STD
Submitted by :
Vial Number : 43
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.417	884476	100.00	100.00

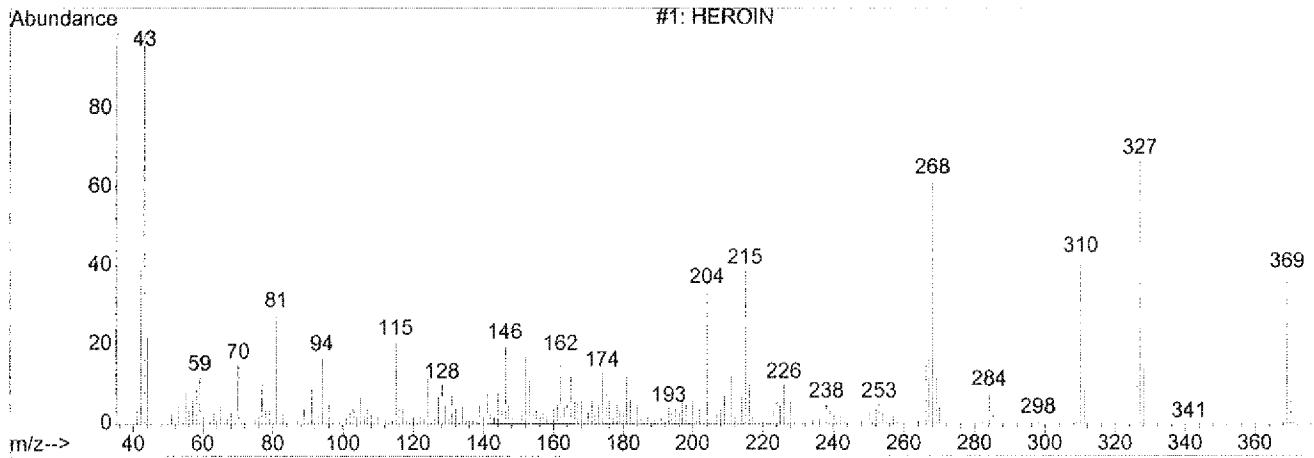
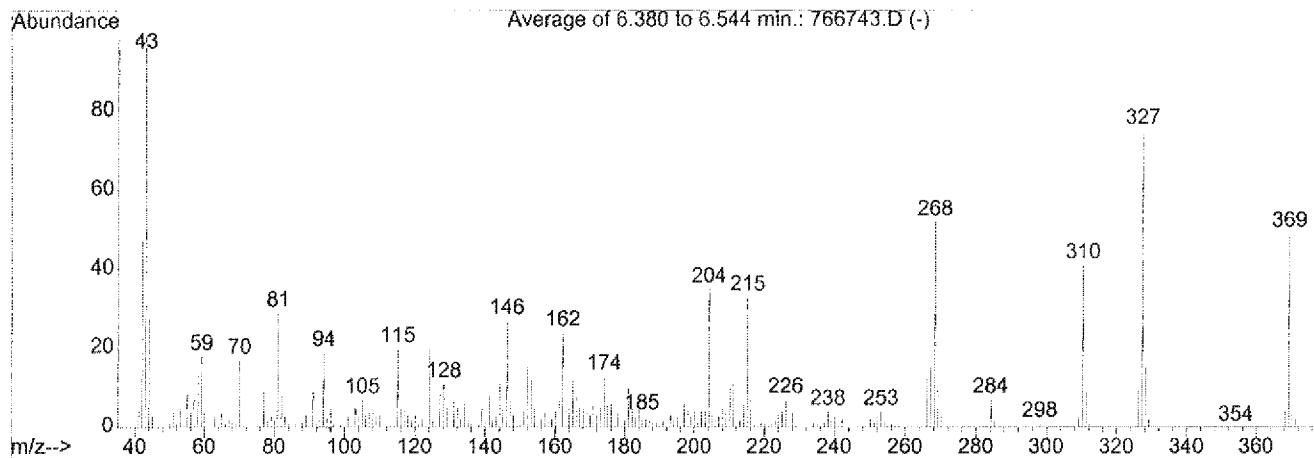
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766743.D
Operator : ASD
Date Acquired : 20 Jan 2011 16:16
Sample Name : HEROIN STD
Submitted by :
Vial Number : 43
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

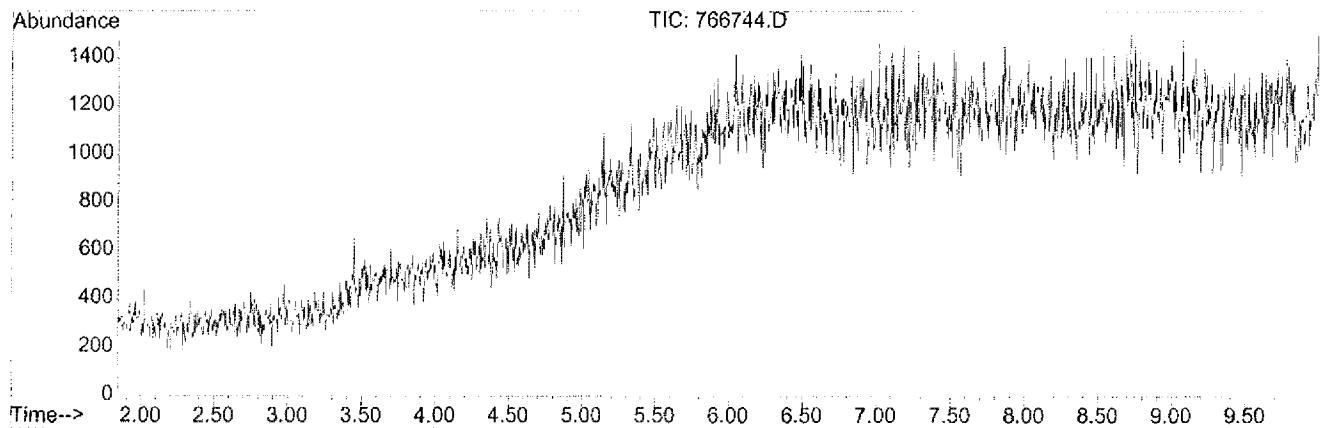
PK#	RT	Library/ID	CAS#	Qual
1	6.42	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766744.D
Operator : ASD
Date Acquired : 20 Jan 2011 16:28
Sample Name : BLANK
Submitted by : MGL
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



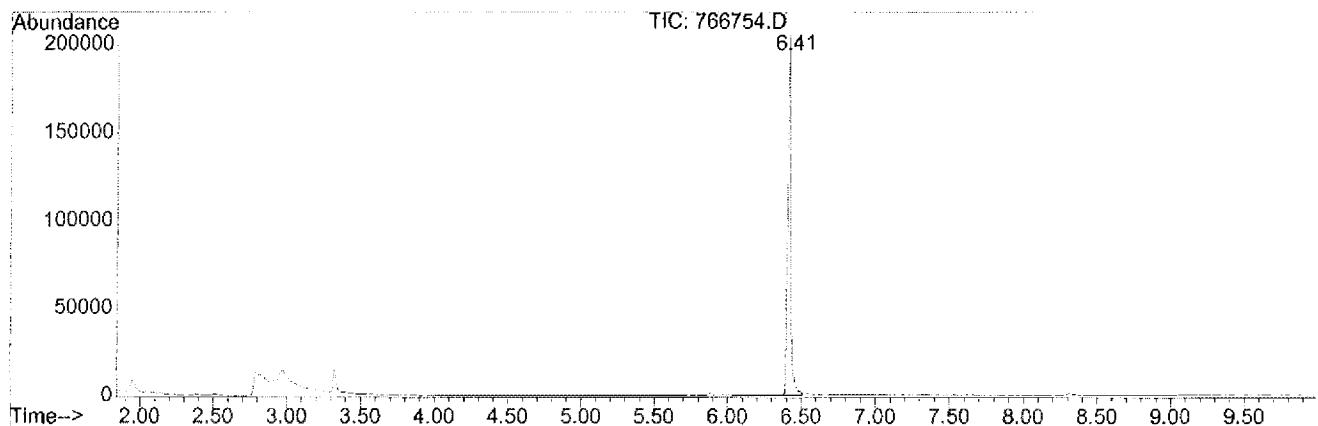
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766754.D
Operator : ASD
Date Acquired : 20 Jan 2011 18:33
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 54
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.412	307662	100.00	100.00

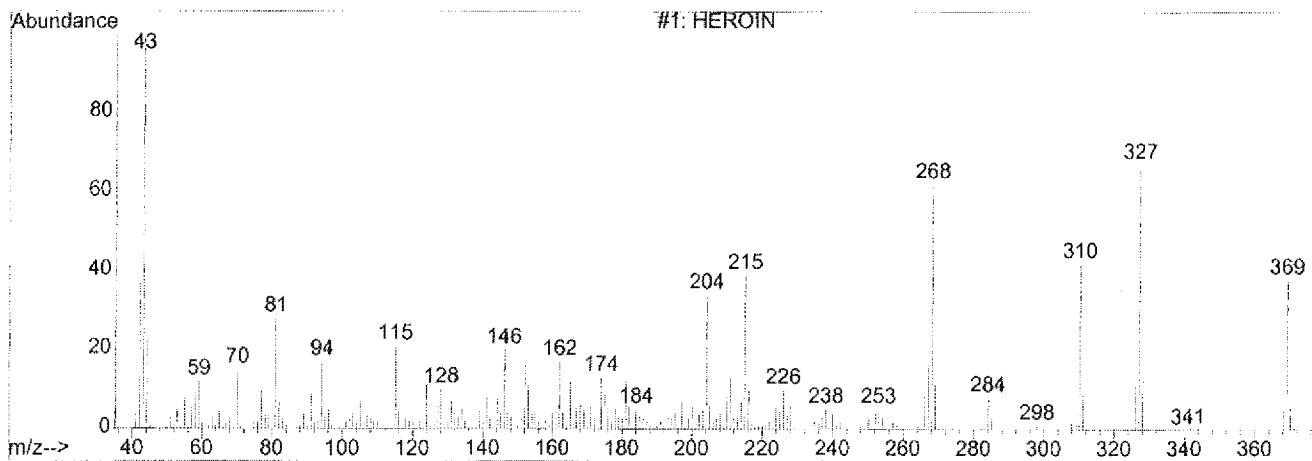
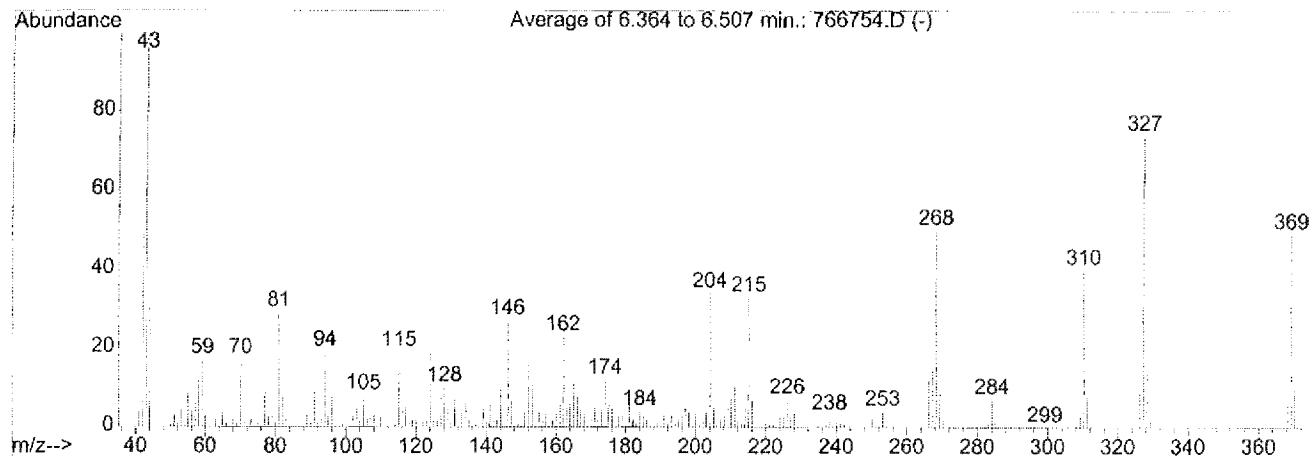
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766754.D
Operator : ASD
Date Acquired : 20 Jan 2011 18:33
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 54
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

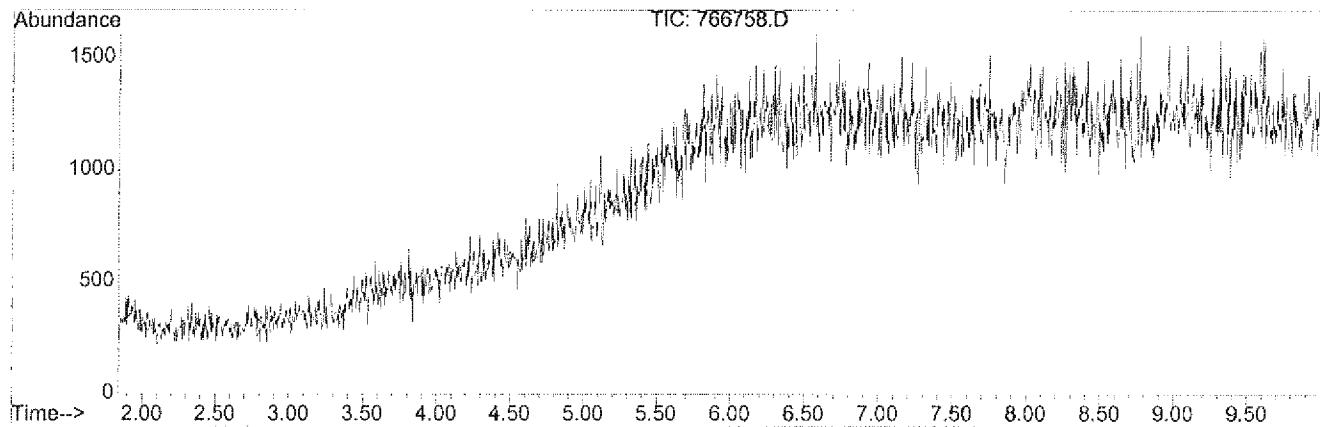
PK#	RT	Library/ID	CAS#	Qual
1	6.41	C:\DATABASE\SLI.L HEROIN	000561-27-3	94



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766758.D
Operator : ASD
Date Acquired : 20 Jan 2011 19:23
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



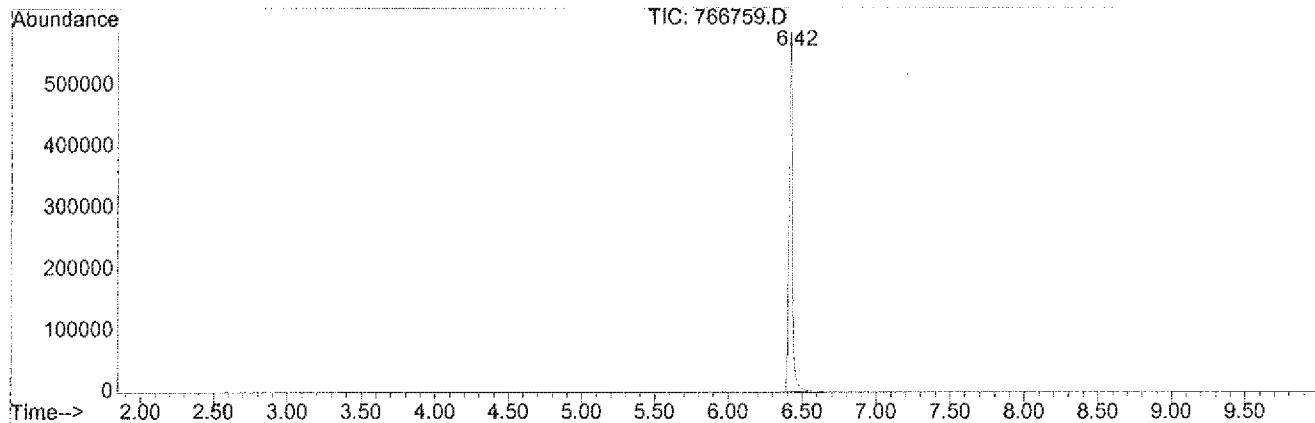
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766759.D
Operator : ASD
Date Acquired : 20 Jan 2011 19:35
Sample Name : HEROIN STD
Submitted by :
Vial Number : 43
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.417	912141	100.00	100.00

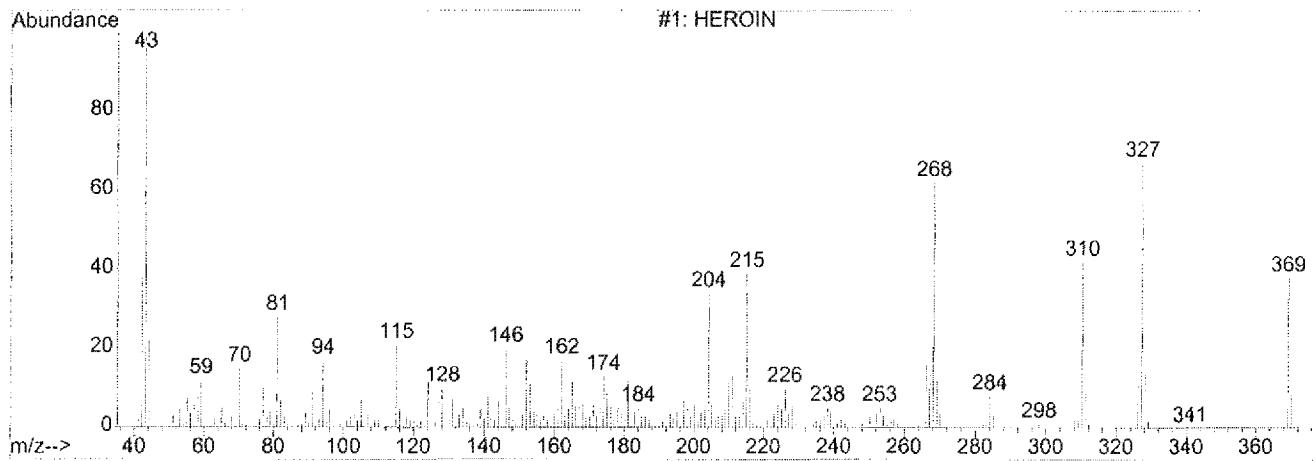
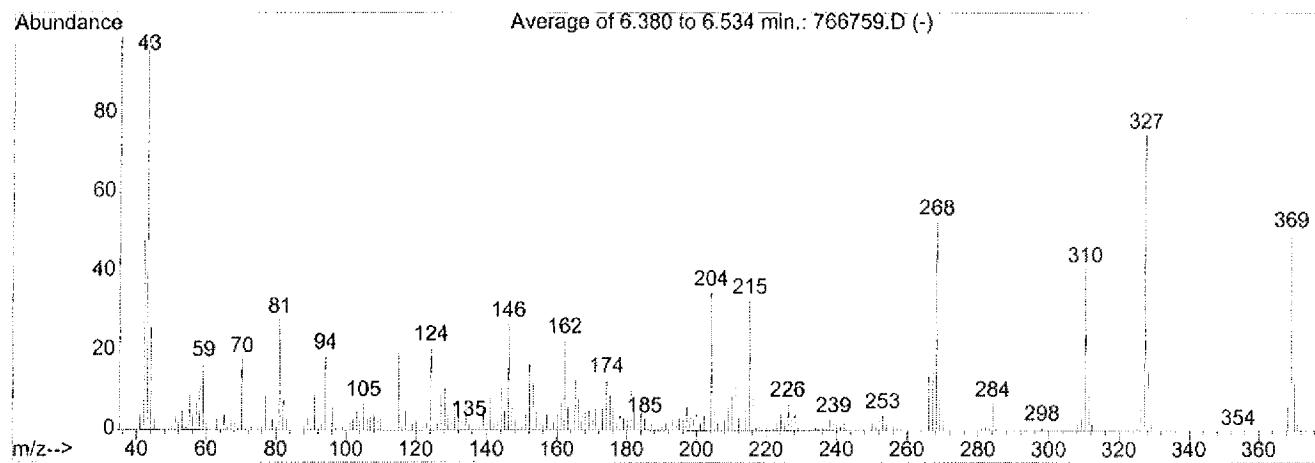
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766759.D
Operator : ASD
Date Acquired : 20 Jan 2011 19:35
Sample Name : HEROIN STD
Submitted by :
Vial Number : 43
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
C:\DATABASE\NIST98.L

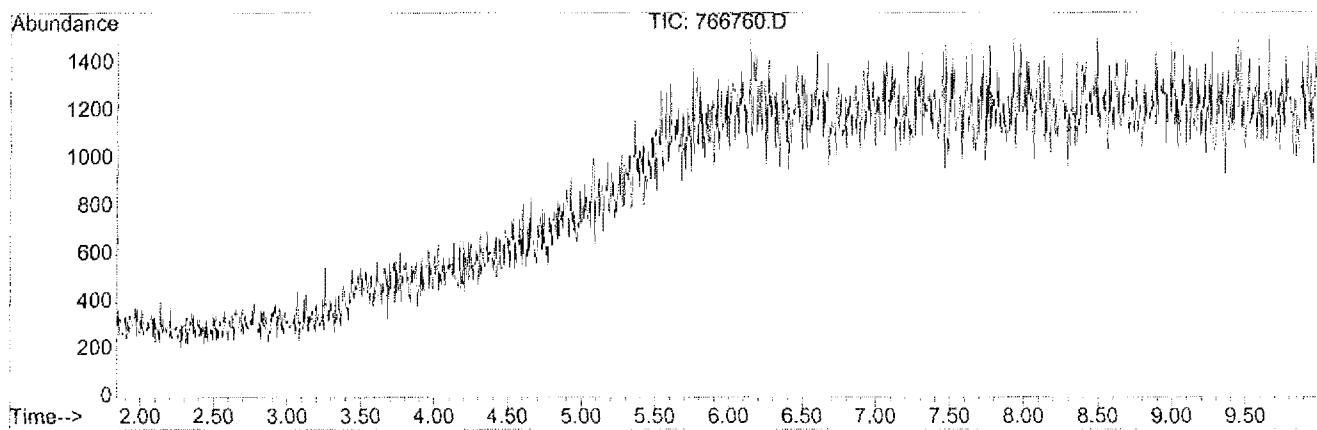
PK#	RT	Library/ID	CAS#	Qual
1	6.42	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM7\01_20_11\766760.D
Operator : ASD
Date Acquired : 20 Jan 2011 19:48
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Last page..... ...no further data